

Fig. 1

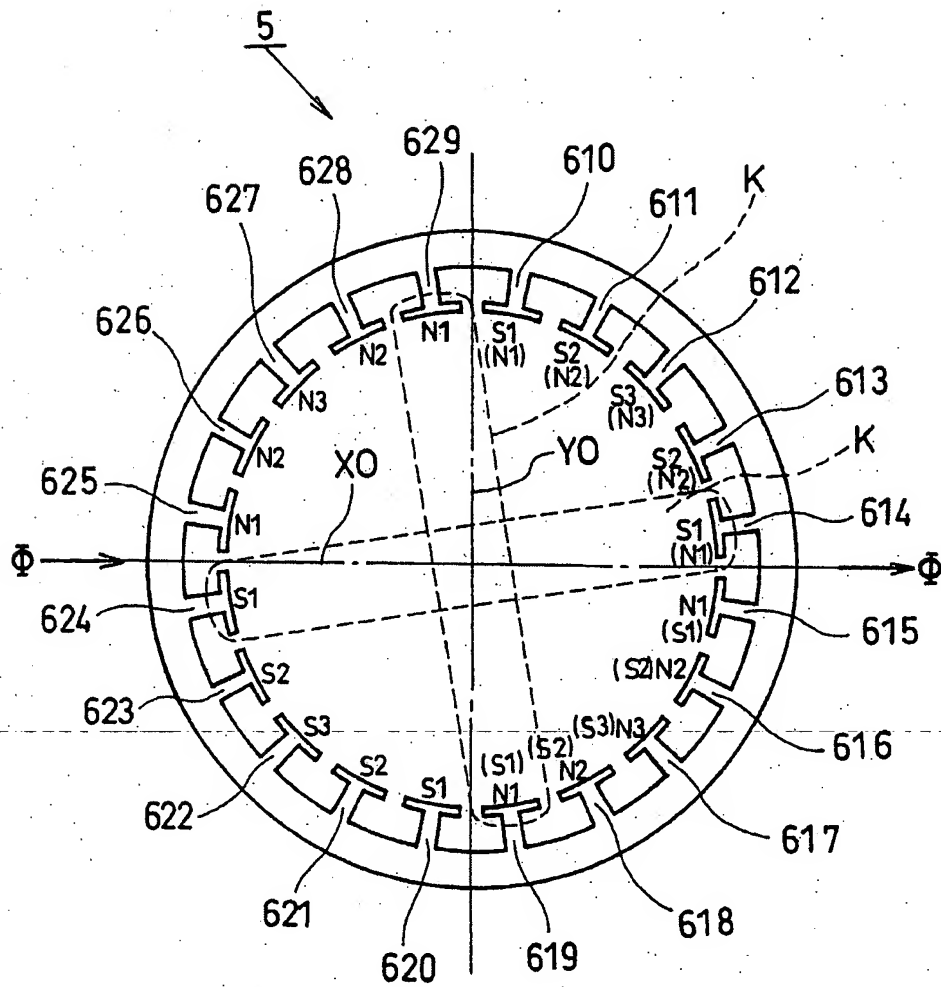


Fig. 2

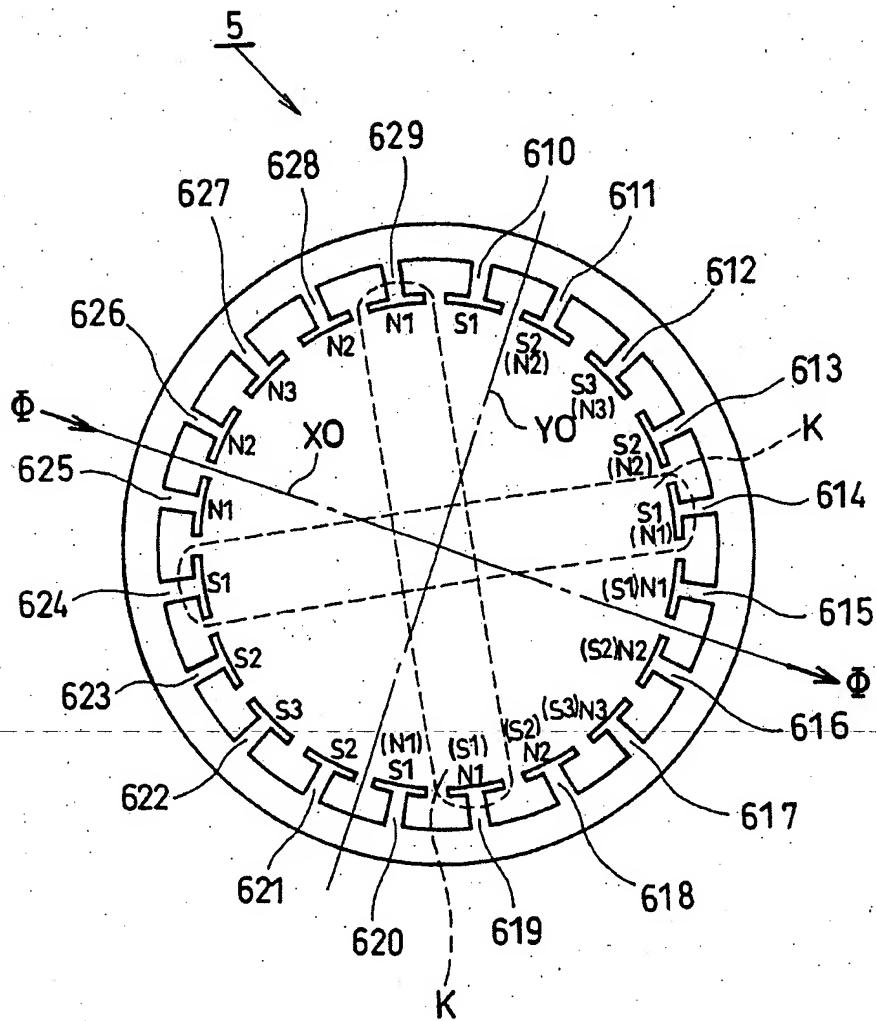


Fig. 3

Fig. 4

Title: VARIABLE RELUCTANCE RESOLVER

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Axis Multiple Angle N	No. of Excitation Pole Pairs P	No. of Output Pole Pairs Q	No. of Slots S	Cancellation Possible? Y/N
7	6	1	12k	×
7	5	2	10k	○
7	4	3	8k	×
7	9	2	18k	○
7	10	3	20k	×
7	11	4	22k	○
7	12	5	24k	×
7	13	6	26k	○
7	14	7	28k	○

k: integer

Fig. 5

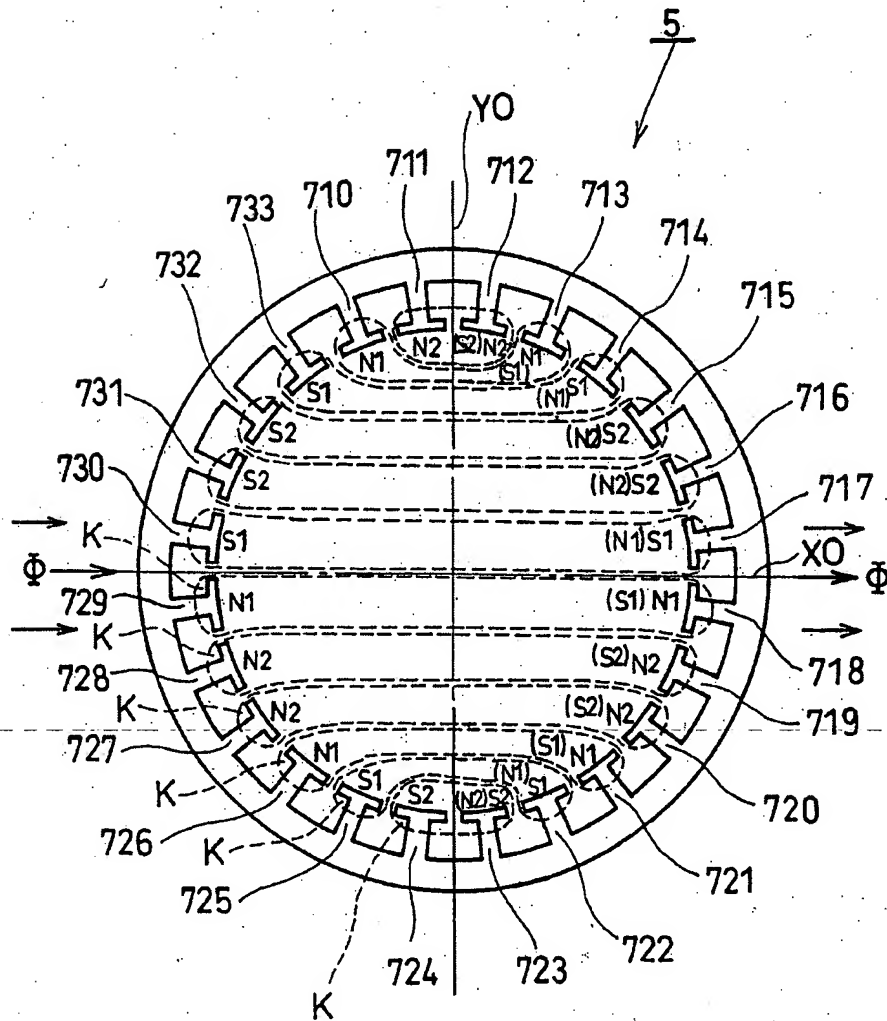


Fig. 6

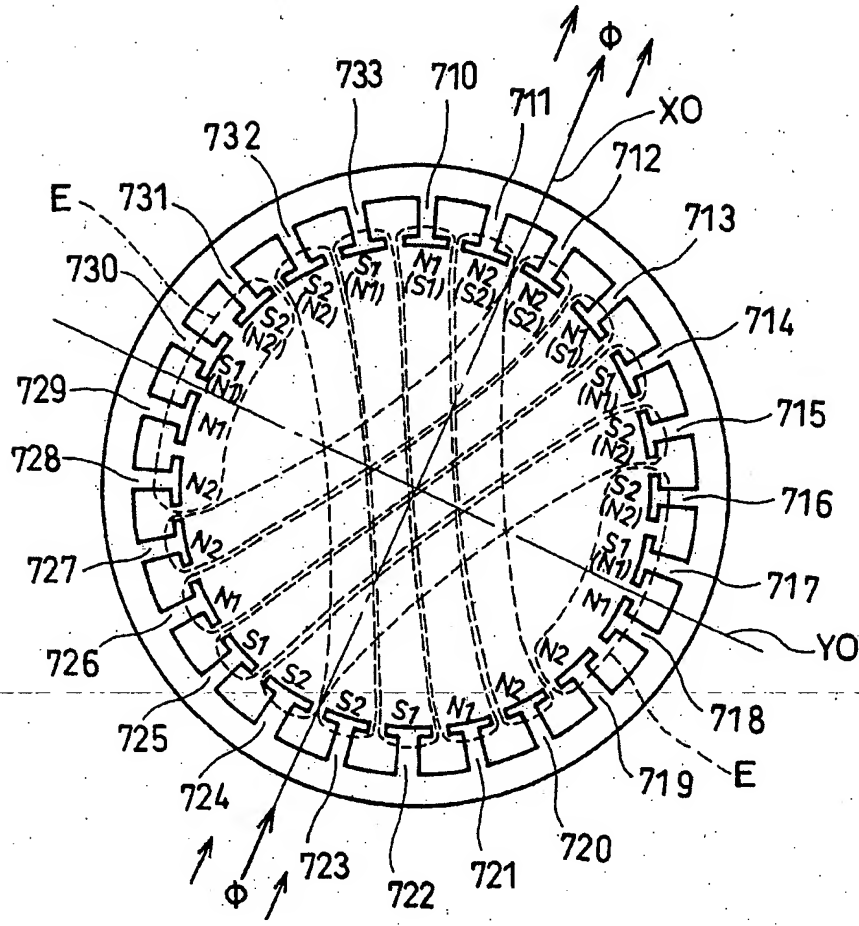


Fig. 7

Fig. 8A

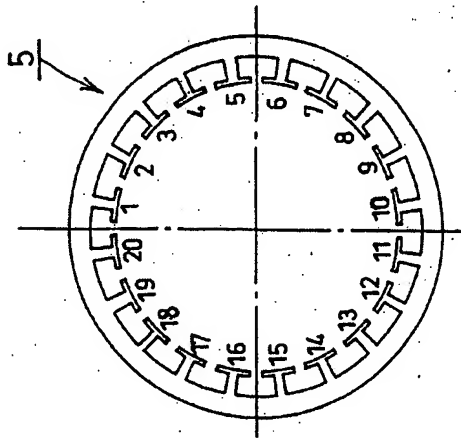


Fig. 8B

Stator Magnetic Pole No.	Coil No. of Turns
1	-39
2	-39
3	39
4	39
5	-39
6	-39
7	39
8	39
9	-39
10	-39
11	39
12	39
13	-39
14	-39
15	39
16	39
17	-39
18	-39
19	39
20	39

Fig. 8C

Stator Magnetic Pole No.	Coil No. of Turns
1	-72
2	-189
3	-234
4	-189
5	-72
6	72
7	189
8	234
9	189
10	72
11	-72
12	-189
13	-234
14	-189
15	-72
16	72
17	189
18	234
19	189
20	72

Fig. 9

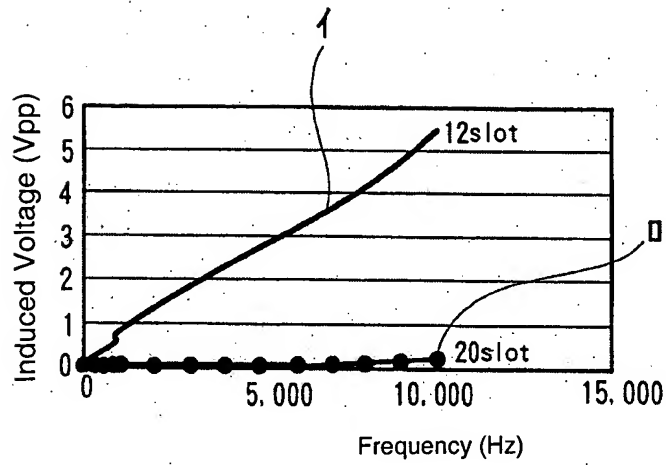
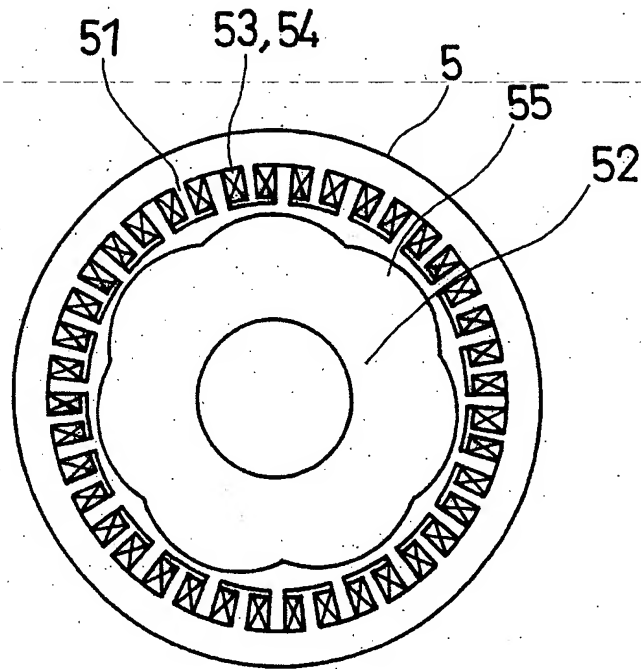


Fig. 10



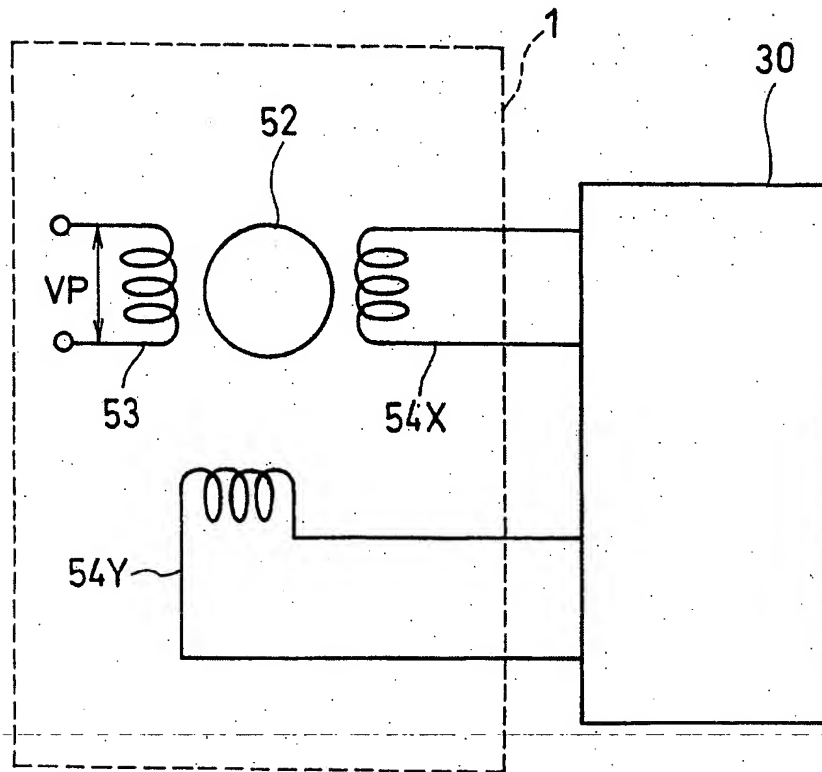


Fig. 11

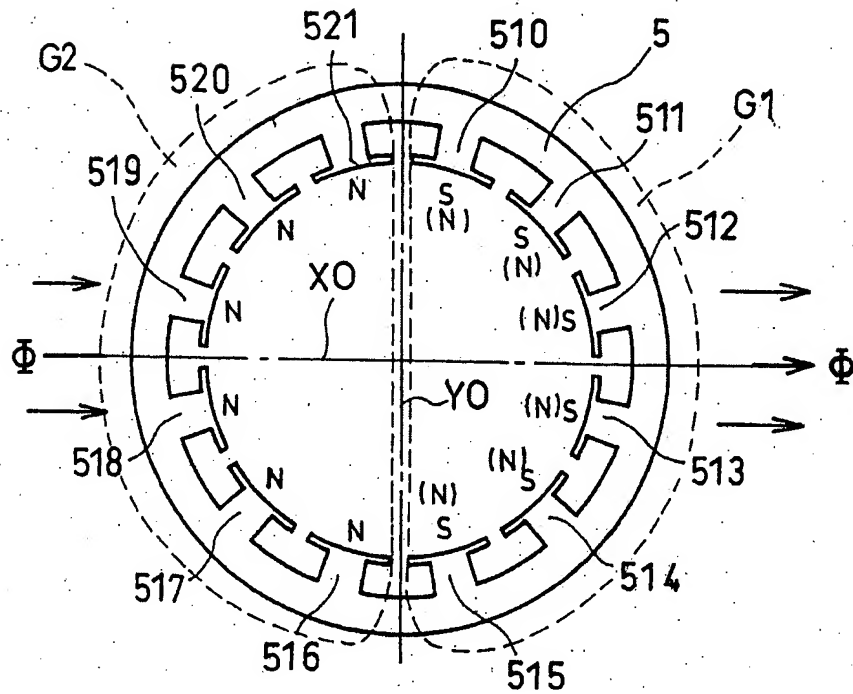


Fig. 12

Fig. 13

Fig. 14